3(7)

SOV/33-35-4-11/25

AUTHORS:

Tatarskiy, V.I., Gurvich, A.S., Kallistratova, M.A., Terent'-

yeva.L.V.

TITLE:

The Influence of Meteorological Conditions on the Intensity of Light Scintillation Near the Surface of the Earth (O vliyanii meteorologicheskikh usloviy na intensivnost' mertsaniya

sveta v prizemnom sloye atmosfery)

PERIODICAL: Astronomicleskiy zhurnal, 1958, Vol 35, Nr 4, pp 623-626(USSR)

ABSTRACT:

The authors report on the experimental investigation of the dependence of scintillation of a source on the earth on the meteorological conditions. The observations have been carried out in autumn 1956 by an astrophysical expedition of the Institute for Atmospheric Physics, Academy of Science USSR. It was stated that the intensity of scintillation and the vertical gradient of the mean temperature strongly correlate (correlation coefficient 0.92) which shows a good coincidence with the theoretical results of the authors. The investigations have a provisional character and are to be continued.

Card 1/2

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# "APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000620120018-1

The Influence of Meteorological Conditions on the SOV/33-35-4-11/25
Intensity of Light Scintillation Near the Surface of the Earth

There are 1 figure, and 14 references, 6 of which are Soviet,
5 American, and 3 English.

ASSOCIATION: Institut fiziki atmosfery AN SSSR (Institute of Atmospherical Physics AS USSR)

SUBMITTED: May 25, 1957

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### CIA-RDP86-00513R000620120018-1

KALLISTRATOVA, M.A.

MEL'NIKOV, O.A., prof., otv.red.; OBUKHOV, A.M., red.; KOLCHANSKIY,

I.G., kand.fiz.-mat.nauk, red; KUCHEROV, N.I., kand.fiz.-mat.

nauk, red.; BYSTROVA, N.V., kand.fiz.-mat.nauk, red.; KALLISTRATOVA, M.A., red.; ZHUKOVA, L.N., red.; ZERDEL, M.Te., tekhn.red.

[Transactions of the Conference on the Study of the Scintillation of Stars] Trudy Soveshchaniia po issledovaniiu mertsaniia zvezd.
Moscow, Izd-vo Akad.nauk SSSR, 1959. 263 p. (MIRA 13:1)

1. Soveshchaniye po issledovaniyu mertsaniya zvesd. Moscow, 1958. 2. Chlen-korrespondent AN SSSR (for Obukhov). (Stars--Scintillation--Congresses)

# KALLISTRATOVA, M.A. Method of studying the scattering of sound in the atmosphere. Akust.zhur. 5 no.4:496-498 159. (MIRA 14:6) 1. Institut fiziki atmosfery AN SSSR, Moskva. (Atmospheric acoustics)

10 (3) SOV/20-125-1-17/67 Kallistratova, M. A. AUTHOR: An Experimental Investigation of Sound Scattering in a TITLE: Turbulent Atmosphere (Eksperimental'n.oye issledovaniye rasseyaniya zvuka v turbulentnoy atmosfere) Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 1, pp 69-72 (USSR) PERIODICAL: Pertinent earlier investigations are first mentioned in short. ABSTRACT: In order to verify the theory of wave scattering at a turbulence in real atmosphere it is of interest to carry out a direct experimental investigation of sound scattering in the earth-near atmospheric layer. In this earth-near layer the characteristics of turbulence may be evaluated on the basis of meteorological measurements (altitude distribution of wind and temperature). The experiments on sound scattering were made in September 1958 at the Tsimlyansk stantsiya Instituta fiziki atmosfery AN SSSR (Tsimlyansk Station of the Institute for Physics of the Atmosphere of the AS USSR). Figure 1 shows a scheme of the experiment and a block diagram of the measuring device. The sound source is an efficient planar condensertransducer (0.8 . 0.9 m large) with a narrow directivity diagram. A converter of this type also served as microphone. Card 1/3

SOV/20-125-1-17/67 An Experimental Investigation of Sound Scattering in a Turbulent Atmosphere

Sound source and microphone were parted by a distance of 2 R = 40 m. The direct and the scattered signal were observed visually with a cath de-ray oscilloscope. Figure 2 shows a series of photographs of the oscilloscope screen. With increasing scattering angle the retardation of the scattered pulse increases with respect to the direct pulse, but its amplitude decreases at the same time. A formula for the intensity of the radiation scattered from the volume V (with any form of spectral density of the refractive index  $\varphi_n(\vec{k})$  is then derived. This formula is also in good agreement with the experimental data of the magnitude of intensity of the scattered signal for the scattering angles 25° and 30°. The theory based on the hypothesis of the local homogeneous turbulence offers a correct description of the observed dependence of the scattering intensity on the intensity of pulsations. There are 4 figures and 8 references, 6 of which are Soviet.

ASSOCIATION: Institut fiziki atmosfery Akademii nauk SSSR (Institute for Physics of the Atmosphere of the Academy of Sciences, USSR)

Card 2/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620120018-1"

An' Experimental Investigation of Sound Scattering in a Turbulent Atmosphere

SCV/20-125-1-17/67

PRESENTED:

November 27, 1958, by M. A. Leontovich, Academician

SUBMITTED:

November 24, 1958

Card 3/3

KALLISTRATOVA, M. A. Cand Phys-Math. Sci -- "Experimental strip of the diffusion of sound waves a in the atmosphere." Mos. 1960. (Acad Sci USSR. Inst of Phys. of the Atmosphere. Acoustic Inst) (KL, 1-61, 179)

-16-

S/046/60/006/004/016/022 B019/B056

6.8000 (3201,1099,1162)

AUTHORS:

Kallistratova. M. A., Tatarskiy, V. I.

TITLE:

The Consideration of the Vorticity of the Wind Field in Calculating Sound Scattering in the Atmosphere

PERIODICAL:

Akusticheskiy zhurnal, 1960, Vol. 6, No. 4, pp. 503 - 505

TEXT: Tatarskiy and other Russian scientists, in calculating the sound scattering by turbulent pulsations of the wind velocities and the temperature in the atmosphere proceeded from the differential equation

 $\Delta \varphi - \frac{1}{6^2} \frac{\partial^2 \varphi}{\partial t^2} = \frac{2 \overrightarrow{\psi}^{\dagger}}{d^2} \nabla \frac{\partial \varphi}{\partial t} \qquad (1)$ 

and from the acoustic theory of non-uniformly moving media. Here  $\phi$  is the potential of the acoustic velocity, c - the velocity of sound, and  $\overline{\psi}$ , the pulsation rate of the wind. In the present paper reference is made to pulsation rate obtained at the Tsimlyanskaya nauchnaya stantsiya experimental results obtained at the Tsimlyanskaya nauchnaya stantsiya Instituta fiziki atmosfery AN SSSR (Tsimlyansk Scientific Station of the Institute of the Physics of the Atmosphere of the AS USSR), and it is Card 1/2

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The Consideration of the Vorticity of the S/046/60/006/004/016/022 Wind Field in Calculating Sound Scattering in B019/B056 the Atmosphere

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shown that the assumptions made by the scientists mentioned are not justified. Already the American Kraichnan (Ref. 4) solved the problem without using the sound potential and the essential restriction curl = 0. The authors show in this case that, especially in the case of large scattering angles, the vorticity of the wind field must not be neglected when investigating the scattering of sound waves. There are 1 figure and 5 references: 4 Soviet and 1 US.

ASSOCIATION: Institut fiziki atmosfery AN SSSR, Moskva (Institute of the Physics of the Atmosphere of the AS USSR, Moscow)

SUBMITTED: April 23, 1960

Card 2/2

33205 S/141/61/004/005/007/021 E032/E514

24, 3200 (1057, 1/09, 1158)

AUTHORS Bovsheverov, V.M., Gurvich, A.S. and Kallistratova M A.

TITLE: An experimental study of the vibration of an artificial source of light

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiofizika, v.4, no.5, 1961, 886-891

TEXT: The static vibration characteristics, the dispersion, and the frequency spectrum were investigated with the aid of the apparatus shown in Fig.1. The light source MC was placed behind a slit whose width was such that the angular dimensions of the source were of the order of 2". The source was placed at a distance L from a telescope. The mirror of a single-loop galvanometer | Twas placed between the objective () of the telescope and its focal point at a distance of about 1 cm from the latter. Light reflected from the mirror was focused by a second objective (not shown in the figure) onto a 30 µ slit. The width of this slit was smaller by a factor of approximately 2 than the image of the source produced by the second objective. The photomultiplier 29 was placed behind the slit. When the position of Card 1/4

An experimental study of the ...

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33205 \$/141/61/004/005/007/021 E032/E514

the source is changed the system may be re-focused by displacing the objective of the telescope. The vibration was measured with the aid of a tracking system operating on a carrier frequency of The carrier frequency signal derived from an audiofrequency oscillator was fed into the loop through an adding circuit  $\sum$  (balanced bridge). The amplitude of the oscillation of the image was of the order of 35 to  $40~\mu$ . The photomultiplier outpu was fed into the amplifier y (band-width 48095200 cps) the average position of the image (per period) is at the mid-point of the slit, then the photomultiplier signal contains frequency components 2f, 4f etc. but the component with frequency f (period = 1/f) is absent. The amplitude of the latter component is proportional to the displacement of the average position of the image from the mid-point of the slit and the phase is the same as the phase of the oscillations of the loop or differs from it by 180° depending on whether the image is displaced to the left or to The amplifier will transmit only those frequencies which are approximately equal to f. The amplifier is followed by the synchronous detector CA whose output is fed to the galvanometer loop through the adding circuit  $\Sigma$  . The variance of Card 2/4

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620120018-1"

An experimental study of the ...

33205 S/141/61/004/005/007/021 E032/E514

the vibration was measured with the aid of an electrodynamic multiplier with negative feedback which was similar to that described by G. Korn and T. Korn (Ref. 6: Electronic analogue computers, 1952 (Russian translation IL, M, 1955). The scale of the multiplier was graduated in units of the variance of the angle of incidence  $\sigma_{\phi} = (\phi - \bar{\phi})^2$ . The variance  $\sigma_{\phi}$  was measured as a function of L and of the meteorological conditions. It was found that on the average the plot of  $\sigma_{\phi}$ that, on the average, the plot of  $\sigma_0^2$  vs. L is a straight line. This is in agreement with the theoretical formula reported by V. I. Tatarskiy (Ref.1: Theory of fluctuations in the propagation of waves in a turbulent atmosphere, Izd. AN SSSE, M., 1959). The experimental data obtained for the intensity of fluctuation in the angle of incidence are also in good agreement with calculations based on meteorological measurements of temperature gradients and wind speed. The spectrum of fluctuations in the angle of incidence is in good agreement with the theoretical calculations based on the Kolmogorov-Obukhov There are 5 figures and 7 Soviet references. theory of turbulence.

Card 3/4

An experimental study of the ... S/141/61/004/005/007/021 E032/E514

ASSOCIATION: Institut fiziki atmosfery AN SSSR (Institute of Physics of the Atmosphere AS USSR)

SUBMITTED: March 2, 1961

Fig.1. Legend. Block diagram of the apparatus.

V() - light source, 0 - objective,

- loop galvanometer, !!! - slit,

- \*\*\*) - 5 kc/s filter, \*\* - amplifier,

- synchronous detector,

- adding bridge, \*\*\*) - electrometric amplifier, \*\*\* - high-voltage rectifier,

31' - audio-frequency oscillator,

UA - frequency analyser,

AN - electrodynamic multiplier.

MC WB PY CA

Card 4/4

S/506/62/000/004/004/005 PO32/E314

24,1200

AUTHOR: Kallistratova, M.A.

TITLE: Experimental studies of the scattering of sound waves

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in the atmosphere

SOURCE: Akademiya nauk SSSR. Institut fiziki atmosfery. Trudy.

no. 4. 1962. Atmosfernaya turbulentnost'. 203 - 256

TEXT: This paper reviews experimental studies of the scattering of sound in the atmosphere, which were carried out at the Tsimlyanskaya nauchnaya stantsiya Instituta fiziki atmosfery AN SSSR (Tsimlyanskiy Scientific Station of the Institute of Physics of the Atmosphere of the AS USSR), and the associated theoretical background. The experiments were carried out on an open steppe in 1958 and 1959. The vertical profiles of the average wind velocity and average temperature were measured at the same time. The aim was to verify a theoretical formula for the intensity of scattered sound waves as a function of the meteorological conditions, frequency and angle of scattering. Both the sound-wave generator and the detector were highly directional, so that the scattering could be looked upon as being due to a localized region in the Card 1/0

S/506/62/000/004/004/005 E032/E314

Experimental studies ....

atmosphere. Preliminary data were obtained in 1958 using electrostatic converters, type MKN-I (MKI-I). The sound-generator and the microphone were arranged as shown in Fig. 14. They were at a fixed distance of 40 m from each other. The transmitter produced 1.5 µs pulses at a repetition frequency of 30 c.p.s. and a carrier frequency of 11 kc/s. The intensity was measured at scattering angles between 16 and 180°. The sensitivity of the apparatus was of the intensity of the such that scattered signals equal to 10 transmitted signal could be detected. The apparatus thus provided a means of direct experimental determination of the scattering of sound by turbulent pulsations in wind velocity and temperature. The general variation in the scattering intensity as a function of the scattering angle was found to be in agreement with theoretical predictions, e.g. there are minima in the scattering function at  $\theta = 90$  and  $180^{\circ}$ . A formula for the effective scattering crosssection derived on the assumption that curl  $\underline{v} = 0$  was found to leads to a discrepancy as compared with experimental data for large scattering angles at which a cos of factor was found to have a strong effect. The three-dimensional spectral-energy density of turbulent pulsations calculated from the dependence of the Card 2/9 11

经重接重量的复数金融的原本主流设计的主导和经营全企的运行运行运行运行运行运行运行工程。但是有特殊的国际的国际的国际的国际的国际的国际国际国际国际国际国际国际国际

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Experimental studies ....

scattered intensity on  $\Theta$  in the range  $\Theta=16-70^\circ$ , which corresponded to irregularities with linear dimensions between 3 and 12 cm, was of the form  $(\sin \Theta/2)^{-11/3}$ , which was in good agreement with the theories of A.N. Kolmogorov (Dokl. AN SSSR, 30, 299, 1941) and A.M. Obukhov (Izv. AN SSSR, seriya geogr. i geofiz., no. 4-5, 453, 1941; v.13, no. 1, 1949; no. 3, 1951). At small angles ( $\Theta=16-30^\circ$ ) the effective scattering cross-section was of the form  $O=(\sin \Theta/2)^{-11/3}$ . The absolute value of the scattered signal at  $16^\circ \subset \Theta \subset 70^\circ$  was also in good agreement with theoretical predictions. The effective scattering cross-section per unit volume at  $\Theta=30^\circ$  was found to be of the order of 0.8 x 10 cm. This value was found to reduce to 3.4 x 10 at 180°, which was lower by two orders of magnitude as compared with the theory. A study of the dependence of the scattered intensity of meteorological conditions showed that: 1) there was good agreement between the theoretically predicted effective scattering cross-section as a theoretically predicted effective scattering cross-section as a function of the meteorological conditions and 2) up to  $\Theta=80^\circ$  the principal contribution to the scattered intensity was due to wind-principal contribution to the scattered intensity was due to wind-velocity pulsations whereas at greater angles temperature pulsations had to be taken into account. Scattering at  $\Theta=180^\circ$  depended on Card 3/ $O=10^\circ$ 

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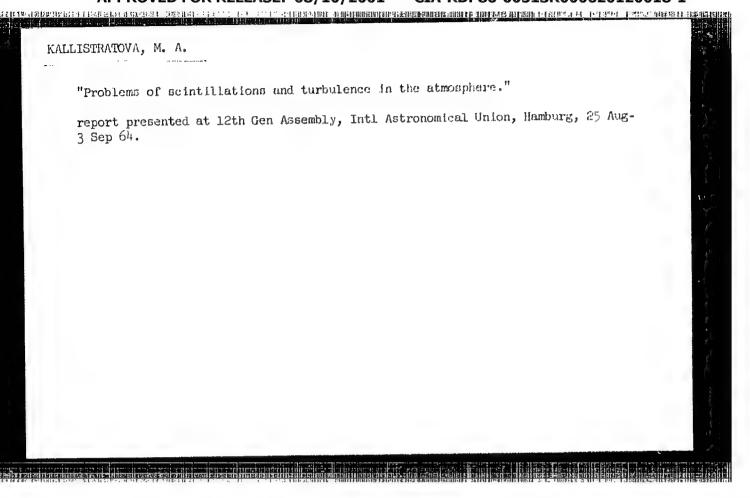
S/506/62/000/004/004/005 E032/E314

Experimental studies ....

temperature pulsations only, in agreement with theoretical predictions. In comparing the scattering intensity with the structural constants  $C_V$  and  $C_T$  for the wind-velocity and temperature profiles it was necessary to take into account the dependence of the numerical parameters a and b, entering into the formula for  $C_{V}$  and  $C_{T}$ , on the Richardson number Ri . There are 29 figures.

Card 4/8 4

CIA-RDP86-00513R000620120018-1" APPROVED FOR RELEASE: 08/10/2001



BOVSHEVEROV, V.M.; KALLISTRATOVA, M.A.

Method and preliminary messurements of the fluctuation of the solar limb image. Astron. zhur. 41 no.3:550-554 My-Je '64. (MIRA 17:6)

1. Institut fiziki atmosfery AN SSSR.

TO A STATE OF THE PROPERTY OF 15308-66 ENT ( ACC NR. SOURCE CODE: UR/0000/65/000/000/0032/0039 AUTHORS: Bovsheverov, V. H.; Gurvich, A. S.; Kallistratows, H. A. 53 ORG: none 51 TITLE: Flickering of the image of an artificial light source in the surface layer of the atmosphere SOURCE: AN SSSR. Astronomicheskiy sovet. Opticheskaya nestabilinosti semnoy atmosfery (Optical instability of the earth's atmosphere). Moscow, Ind-vo Manka, 1965, 32-39 TOPIC TAGS: atmospheric turbulence, atmospheric refraction, wind velocity, temperature gradient, free atmosphere ABSTRACT: Appearatus used for measuring fluctuation of wave fronts was described previously by the authors (Izv. vyssh. uch. zav., Radiofizika, 4, No. 5, 1961). Measurements were made at night in August of 1960 at the Tsimlyanskays nauchows stantsiya Instituta fiziki atmosfera (Tsimlyanskiy Scientific Station of the Enstitute of Atmospheric Physics). Directed light sources (projectors) were set up at distances of 125, 250, 500, 1000, and 2000 m. The angle of light was about 2". Average values for 10 minutes were used. Flickering was measured, and vertical profiles of wind velocity and temperature were determined to a height of 12 m. The dependence of flicker dispersion on height was determined. Measured and computed values of this Card 1/2

经支撑性分类 医格曼性红斑状结 生元数点 医三头形式 其中一些自己的 计比较相信 用用时间用照照时间间照明的现在分词 医阴性的现在形式 医外侧中的 计位于 医动物神经 化二氢异甲基乙基甲基乙基甲基乙基 15308-66 ACC NR: AT6003707 2 dispersion were compared and found to be in good agreement. The authors show that the vertical distribution of average wind velocities and of temperature in the surface layer of the atmosphere may be used to compute reliably the amount of flicker by means of the theory advanced by V. I. Tatarskiy (Teoriya flynktuatsionnykh yavileniy pri rasprostranenii voln v turbulentnoy atmosfere. Izv. AN SSSR, M., 1959). To make comparable computations when the ray passes through the entire atmosphere, it is necessary to know the relationship of  $C_{\rm R}$  (the structural constant of the refractive index n) to dT/dz and du/dz (T is the Kelvin temperature, u the wind velocity, and z the height) in the free atmosphere, in addition to the vertical profiles of wind velocity and temperature. These relationships are now being investigated by L. R. Tsvang (Izv. AN SSSR, ser. geofiz., 10, 1963). Heasurements confirm the view that the mean square fluctuation of the angle of light-wave incidence is proportional to the distance of turbulent medium through which the light passes. The fluctuation spectrum of the incident angle agrees satisfactorily with theoretical computations on the basis of the Kolmogorov-Dukhay turbulence theory, and it supports the validity of the "frozen turbulence" hypothesis. The dimensionless spectra of incident-engle fluctuation of light and sound waves are rather similar. Orig. art. has: 4 figures and 8 formulas. SUB CODE: 04/ SUBN DATE: 15Hay65/ ORIG REF Astronomy 12,55 2/2 mc

L 29206-66 EEC(k)-2/EWT(d)/EWT(1)/FCC GM/WS-2

ACC NR: AP6007629 SOURCE CODE: UR/0141/66/009/001/0050/0056

AUTHOR: Kallistratova. M. A.

ORG: Institute of the Physics of Atmosphere, AN SSSR (Institut finiki atmosfery

AN SSSR)

TITLE: Fluctuation of the direction of propagation of light waves in a

heterogeneous turbulent medium

SOURCE: IVUZ. Radiofizika, v. 9, no. 1, 1966, 50-56

TOPIC TAGS: light propagation, atmospheric turbulence

ABSTRACT: The measurements are reported of the dispersion and frequency spectrum of fluctuation in the direction of light emanating from the edge of the Sun disk. A Sun telescope was installed in a flat steppe area, near Tsimlyansk. The Sun's rays passed through the entire thickness of the Earth's atmosphere. The measurements were made in August, 1963, with little or no clouds present. Turbulence characteristics near the telescope were measured in all experiments. It was found that: (1) Reduced to the zenith, the mean-square fluctuation of the light-wave direction (  $\sigma_{\varphi} = 1-1.5$  ang. sec.) exceeds by several times the values

Card 1/2

UDC: 535,3:551.51

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ACC NR

AP7001211

SOURCE CODE: UR/0141/66/009/006/1100/1107

AUTHOR: Kallistratova, M. A.; Kon, A. I.

ORG: Institute of Physics of the Atmosphere, AN SSSR (Institut fiziki atmosfery AN SSSR)

TITLE: Fluctuations in the angle of arrival of light waves from an extended source in a turbulent atmosphere

SOURCE: IVUZ. Radiofizika, v. 9, no. 6, 1966, 1100-1107

TOPIC TAGS: light source, light wave, wave propagation, atmospheric turbulence, plane wave, correlation function, spectrum, ATMOSPHERIC REFERENCE, SHAR DISC.

ABSTRACT: The article deals with a study of fluctuations in the direction of wave propagation from an extended light source in an atmosphere with turbulent pulsations of the refraction index. A luminous filament, sufficiently distant from the refracting atmosphere, is used as the extended source, which makes it possible to limit the investigation to plane waves. The correlation function is calculated for the fluctuations in phase difference from the different points of the extended source in the case when the atmosphere is a uniform isotropic layer adjacent to the receiving

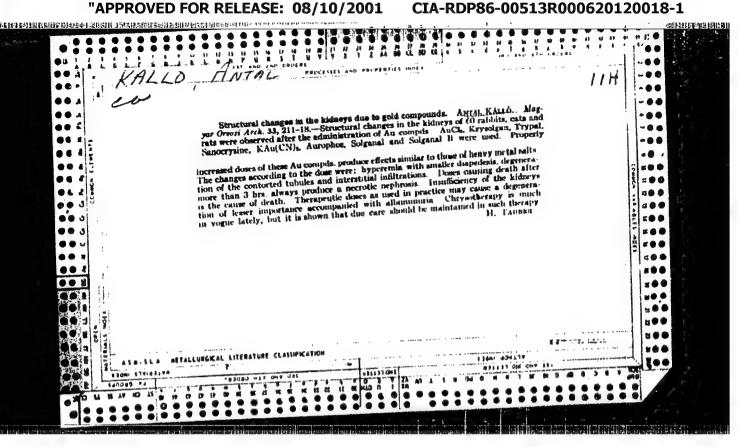
Card 1/2

UDC: 535.3:551.51

ELLO, 1.

"On the patheanatemical symptoms of the afocal cerebrovisceral connections." p. 217. (ACTA MORE HOLOGICA ACALEMALE SCIENTIARUE HUNGARICAE, Vol. 3, no. 2, 1953; Budagest.)

SO: Monthly List of East European Accessions, Library of Congress, Vol 2, no 16, Oct. 1953, Uncl.



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620120018-1"

ANE, Given Nam	rea .	
ountry:	Hungary	.1
cademic Degree	es: Dr.	
ffiliation:	phthalmology Department and Pathological-Anatomy Department of John's Hospital, Budapest (budapest Janos-korhaz szemosztalya es prosecturaja)	
•	Hospital of enter: Dr Jozsef TOKO.  Budapest, Grynskepzes, 1 1 36, No 4, Aug 61, pp 317-320	
ata:	"Sympathetic Ophtelmia."	
	Authors:	
	CSPCDY, Istvan	
	KALLO, Antal .	
	EROSS, Sandor.	

KALLO, A., dr.; FARKAS, Gy., dr.; MIKLOS, Gy., dr.; HODI, L., dr.; SZIJARTO, L., dr.

Relapsing modular panniculitis with co-existing aortic arch syndrome. Orv.hetil. 102 no.33:1550-1554 13 Ag '61.

1. Budapesti Janos Korhaz, Korbonctani es Korszovettami Osztaly es IV. Belosztaly.

(PANNICULITIS compl) (AORTA abmorm)

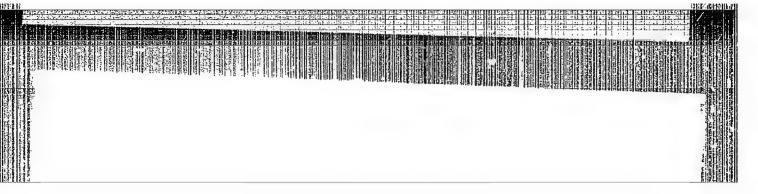
### HUNGARY

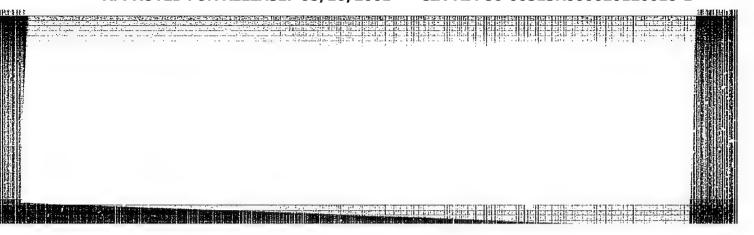
LAKATOS, Iren, Dr. KALLO, Antal, Dr. SZIJARTO, Lehel, Dr. Janos Hospital of Budapest, Departments of Pathology and Pathohistology and Infant and Children's Ward (Budapesti Janos Korhaz Korbonctani es Korszovettani Osztaly es Csecsemo- es Gyermekosztaly).

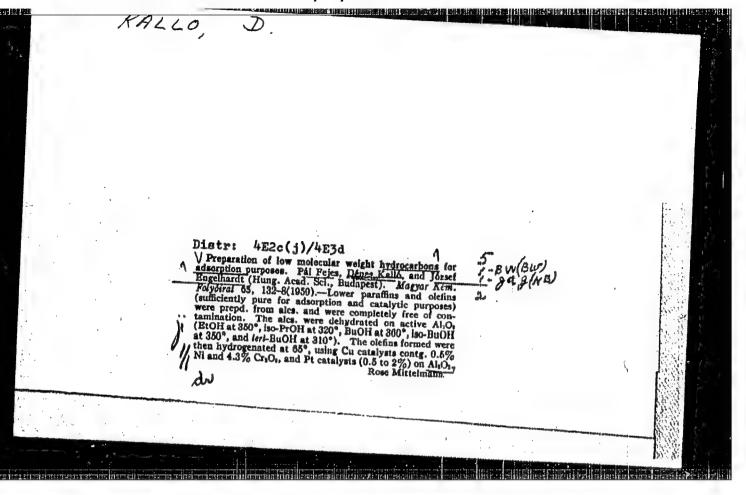
"Leprechaunism. Donohue Syndrome."

Budapest, Orvosi Hetilap, Vol 103, No 23, 9 June 63, pages 1075-1080.

Abstract: [Authors' Hungarian summary modified] Two cases are reported among sisters with symptoms identical with those reported by Donohue. The characteristic changes are mainly due to early ripening of the ovarian follicle, (probably during the 6-7 intrauterine months), accompanied by an overproduction of estrogens. It resulted in hyperplasia of the nipple and external sex organs, hypertrichosis, increased 17-ketosteroid excretion, hyperfunction of the Langerhans isles and parathyroids as well as a decrease of the growth hormone of the pituitary. The syndrome is similar to the Stein-Leventhal syndrome of adults and may be its intrauterine analogue. Available data give no suggestions for the cause of this early ripening of the follicles. 1 Hungarian, 5 Western references.





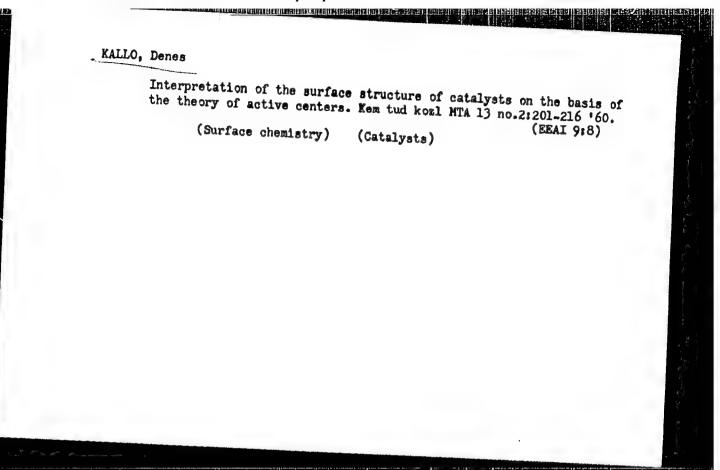


KALLO, Denes

HER PARK

Catalytic hydrogenation of butylenes under atmospheric pressure. Veszprem vegyip egy kozl 4 no.42335-337 160

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intemete, Budapest.



NAGY, Ferenc; HORANYI, Gyorgy; KALLO, Denes

Calculation for the velocity constants of triangle reaction of the first order leading to equilibrium by means of hydrointegrater. Magy kem folyoir 67 no.12:522-527 D 61.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

KALLO, Denes; ENGELHARDT, Jozsef; PRESZLER, Imre

Isomerization of n-butenes on aluminum silicate catalyst. I. a separation of polymerization and isomerization; determination of thermodynamical equilibriums. Magy kem folyoir 68 no.8:359-366 Ag 162.

1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Bu-dapest.

KALLO, Denes; SCHAY, Geza; NAGY, Ferenc; HORANYI, Gyorgy

Isomerisation of n-butenes on aluminosilicate catalyzer.II. Magy kem folyoir 68 no.9:381-389 S '62.

1. Magyar Tudomanyos Akademia Kosponti Kemiai Kutato Intezete, Budapest. 2. "Magyar Kemiai Folyoirat" szerkeszto bizottsagi tagja (for Schay).

BODOR, Geza, dr.; KALLO, Denesne, dr.

Examination of the irregularities in the products of synthetic fibrous materials by means of the diffraction method. Magy textil 15 no.11:503-505 '63.

1. Manyagipari Kutato Intezet, Budapest.

HUHN, Peter, kandidatus; KALLO, Denes, kandidatus

An accont of the work of the Working Committee on Catalysis in 1963. Kem tud kozl MTA 22 no.1:103-104 '64.

THE THE WINDS AND THE PROPERTY OF THE PROPERTY

FEJES, Pal; KALLO, Denes

Role of the pore diffusion inhibition in first-order triangular reactions reversible in all directions. Pt.

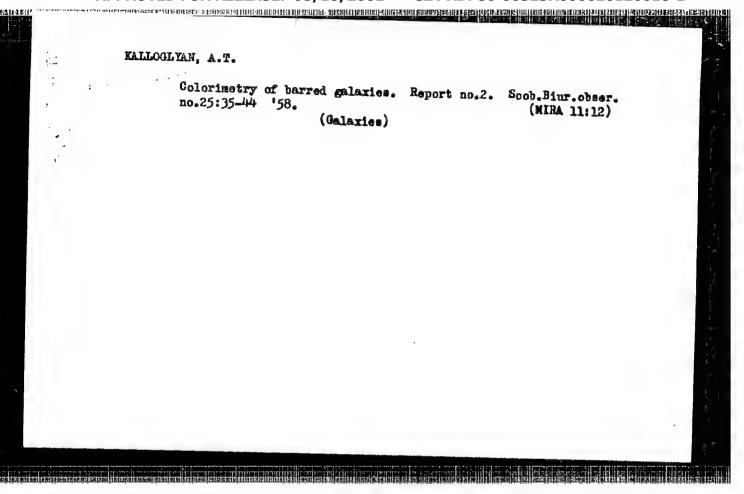
- 1. Magy kem folyoir 70 no. 1: 7-16 Ja 164.
- 1. Magyar Tudomanyos Akademia Kozponti Kemiai Kutato Intezete, Budapest.

1	66 EWP(J)/T RM AP6034695 SOURCE CODE: HU/0005/66/000/003/Q140/0	141
KOLLAR, Las	zlo, SCHWARCZ, Gabor, and KALLO, Denesne. Plastic Industries	
Research In	stitute (Muanyagipari Kutato Intezet), Budapest.	25
"Investigat	ions of Ziegler-Natta Catalyst Systems (Preliminary Communication)	25
Budapest, M	agyar Kemiai Folyoirat, Vol 72, No 3, Far 66; pp 140-141.	
Abstract [A	uthors' English abstract]: Study of the a-TiCl3/AlEt3 catalyst shown that the crystalline structure of a-TiCl3 varies according	
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weight dist	yst systems will be described and their effect on the molecular ribution as well as the effect of the crystal size of a-TiCl3	
our and bord	merization rate will be discussed.	
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37		
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## KALLOGLYAN, A.T.

Colorimetry of barred galaxies. Report No.1. Dokl. AN Arm. SSR 26 no.4:217-222 | 158. (MIRA 11:5)

1. Byurakanskaya astrofizicheskaya observatoriya Akademii nauk Armyanskoy SSR. Predstavleno V.A. Ambartsumyanom. (Nebulae)



KALLOGLYAN, A.T., Cand Phys. Eath Sci — (dies) "On the colorimetry of the and multiple gelection." Yersvin, 1959. 10 pp (Murakan Astrophysical Observitory of the load of Sci of the francish SSR. Yersvan St. to U). 150 copies (KL, 38-59, 114)

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8/169/60/000/008/004/007 A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 8, p. 201, # 9911

AUTHORS:

Khachikyan, E. Ye., Kalloglyan, A. T., Kazaryan, M. A.

TITLE:

Observations of an Artificial Comet at Byurakan - I. With the

"Kometa A" Unit

PERIODICAL: Astron. tsirkulyar, 1959, 15 Okt., No. 205, pp. 2-3

On September 12, 1959, beginning in 21h 35m0s Moscow time, the continuous photographing were carried out of the sodium cloud artificially originated by the second Soviet cosmic rocket; the unit "Kometa A" was used. Six pictures were obtained. The greatest density of blackening was observed in the direction near the rocket motion direction. The coordinates of the cloud center were roughly estimated. A table is added of the computed values of the cloud diameters for its different evolution stages. The average rate of expanding was of the order of 1.3 km/sec. According to the last photograph the cloud diameter amounted to about 1,500 km. The instant of flash is in the interval from 21h49m 20s to 21h49m35s. The sodium cloud was photographed also by the 21 - 21" Shmidttelescope; two photographs were taken. From the first, the equatorial coordinates

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8/169/60/000/008/004/007 A005/A001

Observations of an Artificial Comet at Byurakan - I. With the "Kometa A" Unit

of the artificial comet were determined, from the second the average value of the cloud expansion rate (1 km/sec) was estimated. Moreover, a weak monochromatic picture of the sodium cloud was obtained by the 8" Shmidt-chamber through the

D. A. M.

Translator's note: This is the full translation of the original Russian abstract.

Byurakan astrophypical Observatory

Card 2/2

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## KALLOGLYAN, A.T.

Colorimetry of barred galaxies. Report No.3. Dokl. AN Arm. SSR 33 no.5:205-212 '61. (MIRA 15:2)

l. Byurakanskaya astrofizicheskaya observatoriya AN Armyanskoy SSR. Predstavleno akademikom V.A.Ambartsumyanom. (Nebulae)

KALLOGLYAN, A. T.

Absolute two-color photometry of NGC 7331. Soob. Biur. obser.
no.30:21-33 "62. (MIRA 15:10)

(Galaxies)

THE STATE OF THE HIGHER PRINCIPLE AND THE PRINCIPLE OF TH

S/252/62/034/001/001/001 1023/1223

**AUTHOR** 

Kallogiyan, A. T.

TITLE:

On the dynamical instability of certain groups of galaxies.

PERIODICAL.

Akademiya Nauk Armeyanskoy SSR Doklady, v. 34, no. 1, 1962, 19-23

TEXT: Four groups of galaxies are analysed, having a total positive energy. The four groups are: 1) NGC 68, 69, 71, 72 and an anonymous galaxy; 2) NGC 80, 83; 3) The double galaxy 7385, 7386; 4) A chain of galaxies at  $\alpha_{1950} = 1^h 4.^m 6$ ;  $\delta_{1950} = +32^\circ 8'$ . When applying the virial theorem, the mass-luminosity ratios obtained in very high: 260-685. The masses of the galaxies so calculated are by an order of magnitude greater than the masses calculated assuming a more reasonable mass-luminosity ratio of 60. The results obtained indicate that some galaxies and groups of galaxies are unstable. If the above galaxies and groups of galaxies are assumed stable, the mass-luminosity ratio becomes very high, a fact not supported by any other evidence.

ASSOCIATION: Byurakanskaya astrofizicheskaya observatoriya Akademii nauk Armyanskoy SSR (Byurakan Astrophysical Observatory, Academy of Sciences, Armyanskaya SSR).

PRESENTED:

September 15, 1961, by V. A. Ambaptsumyan, Academician

Card 1/I

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620120018-1"

TOVMASYAN, G.M.; KALLOGLYAN, A.T.

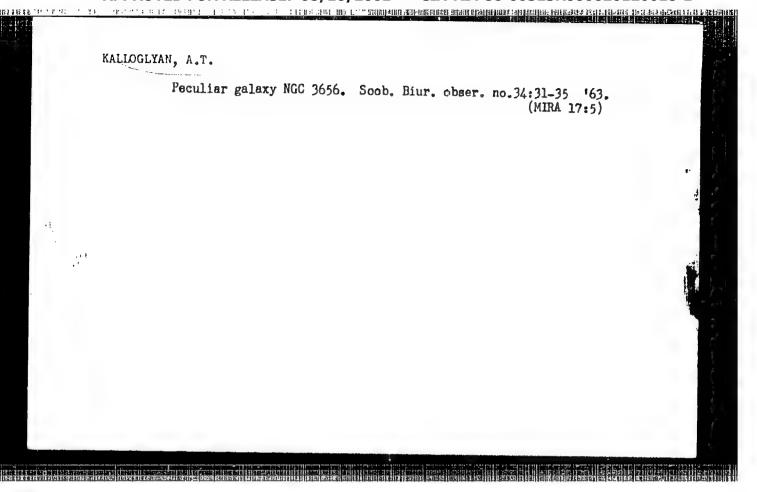
Some identifications of cosmic radio sources. Soob. Biur. obser. no.31:31-38 \*62.

Nature of double radio galaxies. 39-51 (MIRA 16:9)

1. Institut radiofiziki 1 elektroniki AN Armyanskoy SSR 1 Byurakanskaya astrofizicheskaya observatoriya AN Armyanskoy SSR.

KALLOGLYAN, A.T.

Surface brightness of the bars of spiral galaxies. Soob.
Blur. obser. no.33:19-28 '63. (MIRA 17:5)



Cord 2/2

L 42309-66 EWT(1) GW

ACC NR: AT6013094

SOURCE CODE: UR/2620/64/000/036/0031/0043

AUTHORS: Kalloglyan, A. T.; Tovmasyan, G. M.

ORG: none

TITLE: The nuclei of barred galaxies

SOURCE: Byurakan. Observatoriya. Soobshcheniya, no. 36, 1964, 31-43

TOPIC TAGS: galaxy, astronomy, radio astronomy, photometry, calorimetry, observatory

ABSTRACT: The results of photometric and calorimetric investigations of 50 barred galaxies are presented. The 50 galaxies included in the study are taken from all four sub-types from SBO to SBC with known radial velocities and apparent magnitudes greater than 13<sup>m</sup>. The observations were made on a 21--21" telescope of the Schmidt system of the Byurakan Observatory. "Agfa Astro Platten" film for the blue rays and "Kodak Oa-F" film for orange rays and an OG-1 filter were used. The light system was determined by the equation CI<sub>int</sub> = 0.8 CI, where CI is the light constant in the

system used. A table is presented showing the observation data on the fifty galaxies studied. The results lead to the hypothesis that in SBO galaxies there is a strong central "bunching" in which, in all likelihood, there is a star-like center. In SBa and SPRENETIES HINSTON ADDITION TO THE RESENT OF THE PROPERTY OF T

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ACC NR: AT6013094

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centering tendency is absent in the SBc sub-type, and the centers are quite weak. The large dispersion of center radiance in the boundaries of the SBa and SBb sub-types indicates that the development of the center occurs to a large degree independently of the morphological structure of the galaxy. The authors thank V. A. Ambartsumyan for his comments and interest in the work and B. Ye. Markaryan for his consultations in the process of developing the material. Orig. art. has: 1 table and 3 figures.

SUB CODE: 03/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 002

Card 2/2 All

5/620/62/000/030/001/002 E032/E114

AUTHORS: Khachikyan, E.Ye., and Kalloglyan, N.L.

TITLE: On the polarisation of the cometary nebula NGC 2261

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SOURCE: Byurakan. Observatoriya. Soobshcheniya. no.30. 1962.

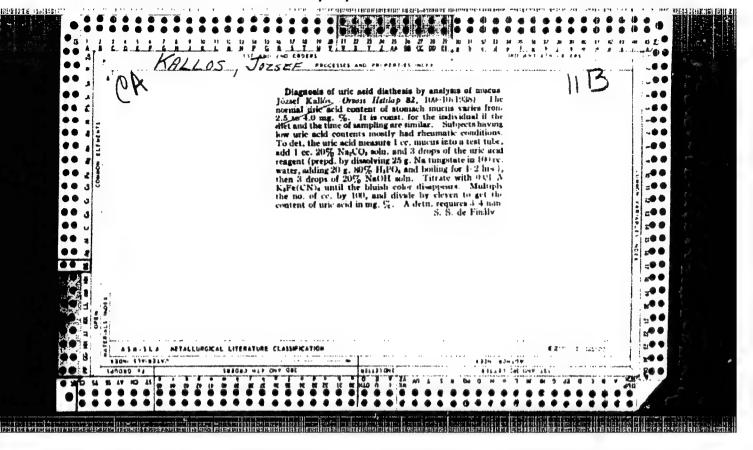
45-50

TEXT: A polarimetric study of the NGC 2261 nebula, which has variable characteristics, is reported. The observations were carried out on the Schmidt telescope of the Byurakan Observatory. Nine 45-minute exposures were recorded on Kodak Oa-O plates with the polaroid at 0, 60 and 120°. The method employed in the observations and in the measurements on the negatives was described in an earlier paper (E.Ye. Khachikyan, Voprosy kosmogonii, VII, 1961, 333). The polarisation was calculated as described by D.A. Rozhkovskiy (Astronomicheskiy tsirkulyar, no.166, 1956, 13). Two sets of polarisation measurements were obtained, one for December 24-25 1960, and the other for January 13, 1961. The general pattern of the polarisation is the same as that reported earlier by E.Ye. Khachikyan (Soobshcheniya Byurakanakoy observatorii, v.25, 1958, 67) except that the mean degree of Card 1/2

on the polarisation of the cometary...  $\frac{5/620/62/000/030/001/002}{E032/E114}$ 

polarisation for the first of the above sets of measurements was 18%, and for the second, 16%. As before, a very high degree of polarisation is observed at the edges of the nebula, particularly on its eastern boundary. A new bright filament was found with the plane of preferred vibrations almost exactly at right angles to the line connecting the filament to the centre of the nebula. There are 2 figures and 1 table.

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KALLOS, I.

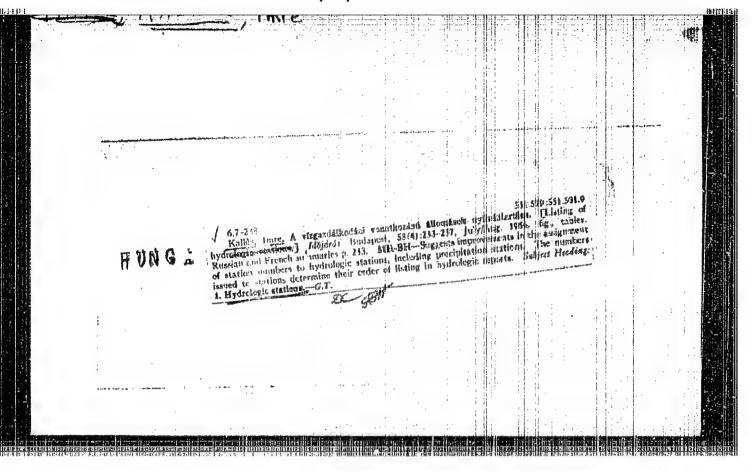
Kallos. I.
"Freezing over of rivers and the weather! p. 50.
(Idojaras. Vol. 57, no. 1, Jan./Feb. 1953, Budapest.)

SO: Monthly List of Mast European Accessions, Vol. 2, No. 9, Library of Congress, September 1953, Uncl.

### KALLOS, I.

"Formation of Frost in May and Its Forecast", P. 8, (IDOJARAS, Vol. 58, No. 1, Jan./Feb. 1954, Budapest, Hungary)

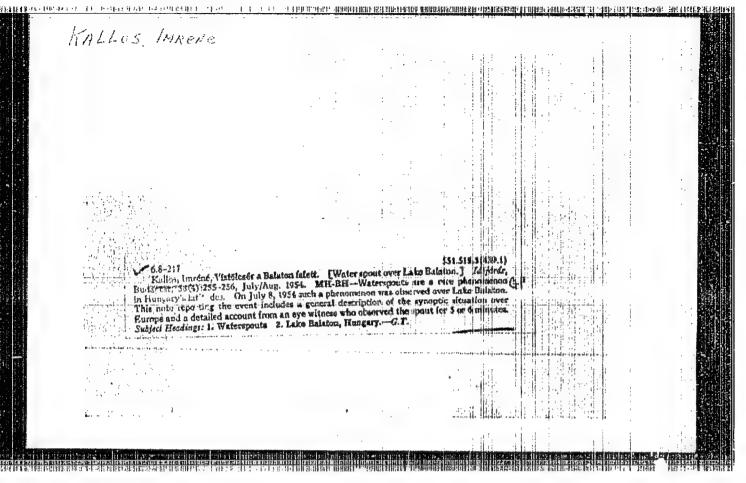
SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 195h, Uncl.

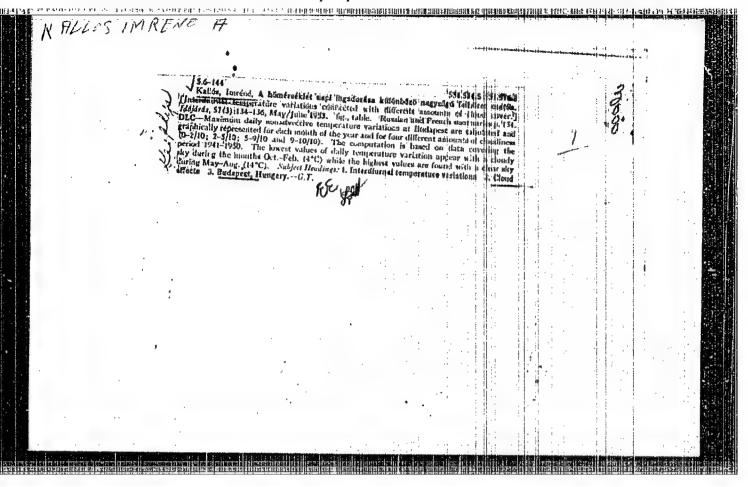


KALLOS, I.

Evaluation of ombrograms. p. 293. HTDROLOGIAI KOZICNY. HYDROLOGICAL JOURNAL. (Magyar Hidrologial Tarsasag) Budapest. Vol. 35, no. 7/8 July/Aug. 1955.

SOURCE: East European Accessions List (EEAL), Vol. 5, No. 2, February 1956





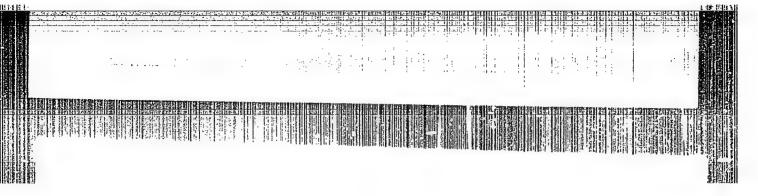
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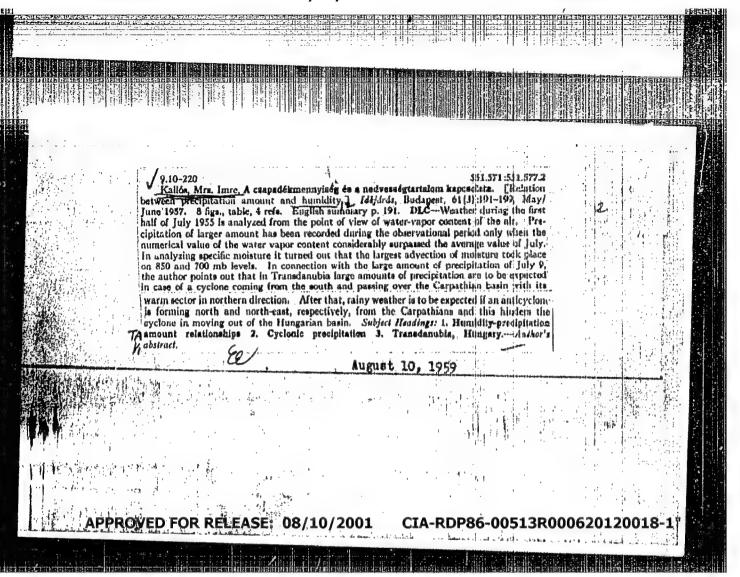
KALLOS, I.

Altitude of the level of leading currents. p. 318

Vol. 59, no. 5, Sept./Oct. 1955 IDOJARAS BUDAPEST

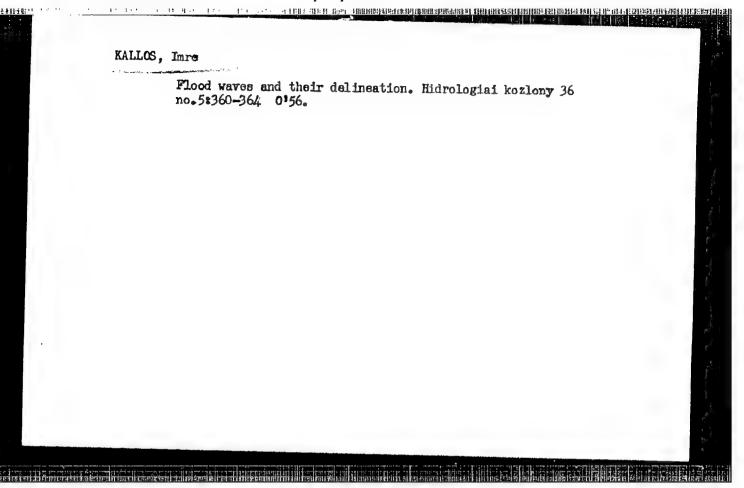
Source: Monthly list of East European Accessions, (EEAL), LC, Vol. 5, no. 3, March 1956





KALLOS, Imre, dr.

Changes in the ground water level expressed in the function of ground water depth and meteorological elements. Hidrological kozlony 41 no.2:149-156 Ap '61.



KALLOS, L.

Flood waves and their representation. p.360. (Hidrologiai Kozlony, Vol. 36, No. 5, Oct. 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

MARTON, Sandor, dr.,; KALLOS, Zeussa, dr.

Lobectomy in tuberculosis with diabetes mellitus. Orv. het11.
96 no.19:523-526 8 May 55

1. Az Allami Koranyi Tudobeteggyogyintezet (igazgato: Dessauer Pal dr. II. Osztalyanak (foorvos: Marton Sandor dr.) koslemenye. (TUHERCULOSIS, PULMONARY, complications, diabetes mellitus, lobectomy in) (DIARRETES MELLITIUS, complications, tuberc., pulm., lobectomy in)

KALLOS, Zsuzsa; MARTON, Sandor; SZANTO, Endre

ACTH and cortisons in pulmonary tuberculosis. Tuberkulosis 10 no.5-6: 123-128 May-June 57.

l. Az Orszagos Koranyi TEC Intexet (tudomanyos vezeto: Sebok Lorant dr.) II. belosztalyanak (foorros: Marton Sandor dr.) es I. V. belosztalyanak (foorros: Szanto Endre dr.) kozlemenye.

(TURERCULOSIS, PULMONARY, ther.

ACTH & cortisone combined with antituberculotic drugs, indic. & clim. evaluation (Hun))

(ACTH, ther. use

tuberc., pulm., combined with antituberculotic drugs, indic. & clin. evaluation (Run))

KALLOS, Zeuzea, dr.; SZANTO, Endre, dr.; PALFFY, Gyula, dr.

Results of drug therapy in the form of aerosols in the treatment of lung diseases. Tuberkulozis 16 no.4/5:124-129 Ap-My 163.

1. Az Orszagos Koranyi Tbc Intenet (igazgato foorvos:
Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato:
Foldes Istvan dr. kandidatus) kozlemenye.

(TUBERCULOSIS, PULMONARY) (LUNG DISKASES)

(AEROSOLS) (PYRAZINAMIDE) (NECMYCIN)

KALLOS, Zsuzsa, dr.; LACZKO, Ede, dr.

Pyrazinamide aerosol in the treatment of tuberculosis. Tuberkulozis 14 no.10:313-318 0 61.

1. Az Orszagos Koranyi Tbc Intezet (igazgato-foorvos: Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato: Foldes Istvan dr. kandidatus) kozlemenye.

(PYRAZINAMIDE ther) (AEROSOLS ther)

KALLOS, Zsuzsa, dr.; LAKATOS, Maria, dr.; LEV SNDEL, :83210, dr.

Data to the institutional treatment of "incuracle" and "cored" patients. Tuberkulozis 16 no.12:378-381 D '63.

1. Orszagos Koranyi The Intezet (Igazgato: Bosmormenyi Mikios dr. kandidatus, tudomanyos vezeto: Foldes Istvan dr. kandidatus) kozlemenye.

MARTON, Sandor, dr.; KAILOS, Zauzaa, dr.

Use of thiosemicarbazone (Conteben) aerosols in pulmonary tuber-culosis. Tuberkulozis 17 no.2:47-50 F \*64.

1. Az Orszagos Koranyi TBC Intezet (igazgato foorvos: Boszormenyi Miklos dr. kandidatus, tudomanyos igazgato: Foldes Istvan dr. kandidatus) IX osztaly (foorvos: Marton Sandor dr. kandidatus) kozlemenye.

KALLOS, L.

Correlation between the amount of precipitation and modsture content.

p. 191. (IDOJARAS) Vol. 61, no. 3, May/June 1957 Budapest, Hungary

SO: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 3, March 1958

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L 13128-66 EWT(1) IJP(c) GG

ACC NR: AP6000222

SOURCE CODE: UR/0056/65/049/005/1611/1623

AUTHOR: Kallosh, R. E.; Faynberg, V. Ya.

ORG: Physics Institute im. P. N. Lebedev, Academy of Sciences SSSR (Fizicheskiy institut Akademii nauk SSSR)

TITLE: Quantum field theory equations in the axiomatic approach

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 5, 1965, 1611-1623

TOPIC TAGS: quantum field theory, S matrix, matrix function, difference equation ABSTRACT: The purpose of the investigation was to determine the invariant properties of the S-matrix elements previously derived by one of the authors (Faynberg, ZhETF v. 47, 2285, 1965 and earlier) for an axiomatic formulation of quantum field theory, and to obtain in explicit form equations for n-point diagrams in difference or integral form, with the quasilocal term eliminated. It is shown within the framework of this formulation that the undetermined quasilocal terms can be expressed in terms of R-functions when the values of some of the invariants are fixed. An analysis is made of the invariants on which the v-functions on the mass shell depend, the range of variation of these invariants in the equation, and

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the best chelce of independent variants in the case of an arbitrary n-point diagram. The invariant properties of the retarded matrix elements of v-functions are used. It is shown that on the mass shell the v-functions depend in the physical region only on invariant scalar products of 4-vectors. Equations in difference form are derived first for 3-, 4-, and 5-point diagrams, and the special nature of the boundary conditions at the threshold and at infinity is explained. The method is then generalized to a 6-point diagram. The equations derived and the prospects for solving them beyond the scope of perturbation theory are briefly discussed. Orig. art. has: 25 formulas.

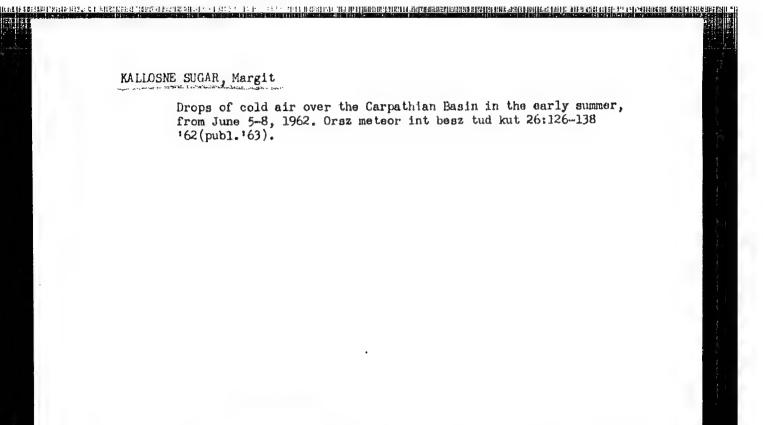
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KALLOSNE SUGAR, Margit; OTTANE BENKO, Erzsebet

Hurricane-like windstorm in Szeged. Idojaras 66 no.5:292-294 S-0 '62.



KALLUS, K.; BUZEK, Z.

Intensification of the melting down period in the arc furnace by charge preheating outside the furnace or inside the furnace; an economic comparison. Shor VSB Ostrava 9 no.1:67-71 163.

KALLOSNE SUGAR, Margit

"Specific cases of obserbing precipitations by radar" by L. Klauser, G.Malkowski. Reviewed by Mrs.Margit Kallos nee Sugar. Idojaras 68 no.6:376-377 N-D '64.

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CAHA, A., Dr.; PROKES, V., Dr.; KALIJJSCH, K.

Gammagraph for medical use; preliminary report. Cesk. rentg. 11 no.3: 197-200 Aug 57.

1. Onkologicky ustav v Brne, red doc. Dr. J. Sprindrich. Tysikalni ustav prirodovedecke fakulty MU v Brne Prvni Brnenske strojirny. Z. KG. (GAMMA RATS.

gamma radiography, appar. (Cs))

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SEMENOV, Aleksandr Nikolayevich; KALLYUS, V.Ya., dotsent, kand.tekhn.
nauk, retsenzent; SOROKA, M.S., red.

[Grain drills] Zernovye seialki. Moskva, Gos.nauchno-tekhn.izd-vo
mashinostroit.lit-ry, 1959. 312 p. (MIRA 13:2)

(Drill (Agricultural implement))

KALLYUS, Vyacheslav Yaroslavovich; KONDRATYUK, P.I., kand. tekhn. nauk, dots., retsenzent; UFAT, Ye.A., inzh.. retsenzent; PILIFENKO, Y.P., inzh., red.; GORNOSTAYFOL'SKAYA, M.S., tekhn. red.

[Hay-harvesting machines; design, calculations, and the principles of utilization] Senouborochnye mashiny; konstruktsiia, raschet i osnovy ekspluatatsii. Moskva, Mashgiz, 1961. 274 p. (MIRA 14:12) (Hay-Harvesting) (Agricultural machinery)

## KALM, A.

The problem of seasons in calving. p. 115.

SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse Ministeerium) Tallinn, Estonia. Vol. 13, no. 3, March 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. d, No. 11, November 1959.

Uncl.

## KALM, A.

Prices of hogs, sheep, rabbits, and fur animals. p. 580 SOTSIALISTLIK POLLUMAJANDUS. Tallinn, Estonia. Vol. 14, no. 12, June 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

GARPINCHENKO, A.M.; GOLUREY, S.G.; DANILOV, M.V.; KALIM, A.A.; KALTAYEY, S.V.; MIKHAYLOV, V.I.; GOLUREY, S.G.; redaktor; FILATOV, I.G., redaktor; VINOKUROVA, Ye.B., redaktor; KONYASHINA, A., tekhniohaskiy redaktor

[Fire extinction tactics] Pozharnaia taktika. Pod red. S.G.Golubeva, Moskva, Izd-vo Ministerstva kommunal'nogo kboziaistva RSFSR, 1955.

379 p. (Fire extinction)

ASATUR, K.G.; KUROCHKIN, N.N.; KAL'M, A.A.

Capacity of the fan drives of heating units. Zap. LGI 47 no.1: 92-95 '62. (MIRA 16:5)

(Mine ventilation-Cold weather operations) Fans, Electric)

Clair of the control of the result of the control o

KALIM, P

KALIM, P A

PYATILETNIY PLAN KOLKHOZA "ISKRA" NA 1951-1955 CODY (THE FIVE-YEAR PLAN OF THE KOLKHOZ "ISKRA" FOR 1951 to 1955, BY) P. A. KAL'M, V. F. BAZENKOV, V. K. IVANKIN (DR.) MOSKVA, SEL'KHOZGIZ, 1952. 221 P. ILLUS., DIAGRS., TABLES.

> 11/5 783.3 .Kl

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KAL'M, P.A.; VLASOV, A.V., redaktor; GLADKIY, N.P., redaktor; LEVONEVSKAYA, L.G., tekhnicheskiy redaktor

trades that entry to a constitution of the con

[Manual of norms for planning and operational direction of collective farms] Sprayochnik normativov dlia planirovaniia i operativnogo rukovodstva v kolkhozakh. 2-e, perer. izd. [Leningrad] Leningradskoe gazetno-shurnal'noe i knizhnoe izd-vo, 1955. 339 p. (MIRA 9:4)

1. Dotsent Leningradskogo sel'skokhosymystvennogo instituta
(for Kal'm)

(Collective farms)

KAL'M, P.A., dotsent; KAZANSKIY, M.M., red.; TIKHONOVA, I.M., tekhn.red.

[For increased labor productivity in agriculture; collected articles] Za povyshenie proizvoditel nosti truda v sel skom khoziaistve; sbornik statei. Leningrad, Lenizdat, 1959. 248 p. (MIRA 12:11)

(Agriculture-Labor productivity)

AREF'YEV, T.I., kand. ekon. nauk; BRASLAVETS, M.Ye., prof., doktor ekon. nauk; BROZGUL', M.M.; VLASOV, N.S., prof., doktor ekon. nauk; DUBROVA, P.F., doktor ekon. nauk; YESAULOV, P.A., kand. sel'khoz. nauk; ZAL'TSMAN, L.M., prof., doktor sel'-khoz. nauk; KAL'M. P.A., dotsent, kandidat sel'skc-nauk; KOSTSMATISKIT, N.A., kand. ekon. nauk; KEYLOV, kand. sel'khoź. nauk; LIEKIND, A.S., dots., kand. ekon. nauk; MAKAROV, N.P., prof., doktor ekon. nauk; OGLOBLIN, Ye.S., kand. sel'khoż. nauk; POLOVENKO, S.I., kand. ekon. nauk; POPOV, kand. sel'khoż. nauk; POLOVENKO, S.I., kand. ekon. nauk; TISHCHENKO, G.A., prof., kand. ekon. nauk; TYUTIN, V.A., prof., doktor ekon. nauk; YANYUSHKIN, M.F., kand. ekon. nauk; PYLAYEVA, A.P., red.; FREYDMAN, S.M., red.; SOKOLOVA, N.N., tekhn. red.

在主义之前,我们有我的主义的,我们就是我们的一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的

[Organization of socialist agricultural enterprises] Organizatia sotsialisticheskikh sel'skokhoziaistvennykh predpriiatii; kurs lektsii. Moskwa, Sel'khozizdat, 1963. 662 p. (MIRA 16:8)

 Zaveduyushchiy otdelom ekonomiki Vsesoyuznogo nauchnoissledovatel'skogo instituta sakharnoy svækly (for Aref'yev).
 Odesskiy sel'skokhozyaystvennyy institut (for Braslavets).
 (Continued on next card)

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AREF'YEV, T.I. -- (continued). Gard .

3. Moskovskaya seliskokhozyaystvennaya akademiya im. K.A.Timiryazeva (for Vlasov), 4. Zaveluyustchiy otdelom ekonomiki i organizatsii Nauchno-issiedovatel'skogo instituta sadovodstva im. I.V. Michurina (for Dubrova). 5. Moskovskiy Gosudarstvennyy universitet im. M.V. Lomonosova (for Zal'tsman, Polovenko), 6. Zaveduyushchiy kafedroy organizatsii sel'skokhozyaystvennogo proizvodstva Leningradskogo sel'skokhozyaystvennogo instituta (for Kal'm). 7. Zaveduyushchiy otdelom ekonomiki Nauchno-issledovateliskogo instituta ovoshchnogo khozyaystva (for Kostseletskiy), 8. Vsesoyuznyy nauchnoissledovatel'skiy institut ptitsevodstva (for Krylov). 9. Moskovskiy ekonomiko-statisticheskiy institut (for Libkind). 10. Vsesoyuznyy sel'skokhozyaystvenniy institut zaochnogo obrazovaniya (for Makarov), 11. Zaveduyushchiy otdelom ekonomiki Krasnodarskogo nauchno-isaledovatel skogo instituta sel skogo khozyaystva (for Ogloblin). 12. Kafedra organizatsii sel'skokhozyaystvennogo proizvodstva Leningradskogo sel'skokhozyaystvennogo instituta (for Popov). 13. Zaveduyushchiy kafedroy Sovetskoy ekonomiki Vysshey partiynoy shkoly (for Sapil'nikov). 14. Voronezhskiy sel'skokhozyaystvennyy institut (for Tishchenko). 15. Leningradskiy sel'skokhozyaystvennyy institut (for Tyutin). 16. Direktor Severo-Kavkazskogo filiala Vsesoyuznogo nauchnoissledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for (Agriculture---Economic aspects)

KAL'E, Favel Alekseyovich, kard. sel'khoz. nauk; GOLANYSOV, F.S., red.; FALEYEVA, Ye.G., red.

[Manual for agricultural norms in the northwestern zone of the R.S.F.S.R.] Spravochnik normativov dlia sel'eksgo kheziaistva severo-zapadnoi zony ROFSR. Leningrau, Izd-ve "Kolos," 1964. 439 p.

(MIRA 17:8)

KALMAKAROVA, M. B.

"Modification of structure of complex proteins"

report presented at the 10th All-Union Conf. on Highly Molecular Compounds, Biologically Active Polymer Compounds, Moscow, 11-13 June 1958. (Vest. Ak Nauk SESR, 1958, No. 9, pp. 111-113)

14(9) SOV/112-59-2-2721

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, pp 62-63 (USSR)

AUTHOR: Kalmakhelidze, S. S.

TITLE: Physical and Technical Properties of Kolkhida Gleyed Soils and Their Variation Under Influence of Electric Current (Fiziko-tekhnicheskiye svoystva kolkhidskikh ogleyennykh gruntov i ikh izmeneniye pod deystviyem elektricheskogo toka)

PERIODICAL: Tr. Gruz. n.-i. in-ta gidrotekhn. i melior., 1957, Nr 18-19, pp 471-484

ABSTRACT: Gleyed soils be ong with the marsh-type highly-compressible soils that have a low water permeability. To improve their inferior construction properties, it is recommended that electrization and electric osmosis be used; these measures considerably improve their water resistance, reduce their swelling and shrinkage, augment their permissible vertical load 2.5-3.5 times,

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Physical and Technical Properties of Kolkhida Gleyed Soils and Their Variation . . . . and reduce their compressibility factor 4-5 times. Electric current density of 2.5-20 amp/m<sup>2</sup> is used to strengthen the gleyed soils. Electric-energy consumption is 60-70 kwh/m<sup>3</sup> of soil. Compression curves for gleyed and non-

V.A.P.

Card 2/2

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KALLAKHELIDZE, S.S., Cand Tech Sci-(diss) "Physico-sandamenting properties of gley soils and their change under the error of an electric current." Toilisi, 1958. 20 pp with graphs (Min of Migher Education USSR. Order of Labor Red Cannet Georgian Polytech Inst im S.M. Mirov), 100 copies (KL, 26-58, 110)

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